

IN THE SPECIFICATION:

Please replace the third full paragraph of specification page 9 with the following replacement paragraph:

In accordance with the present invention, a circuit, illustrated in Fig. 2 provides one implementation of the fixed load circuit 140 (which may be switched into the circuit as schematically illustrated by switches 142a and 142b) and the DC-DC converter 106 (Fig. 1), which allows fuel cell resistance measurements using several alternative techniques.. The circuit 200 includes the fuel cell stack 204 being modeled by an ideal voltage source FCS1 and a series resistance R_s . Both FCS1 and R_s change with time and fuel cell state. FCS1 changes with applied load, while R_s does not. This discrepancy can be used to measure R_s independent of FCS1 changes. R_s is measured indirectly using the remainder of the circuit shown in Fig. 2.